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CABLE TAG DETAIL

HAND HOLE DETAIL BELOW GRADE

N.T.S.

NOTES:

- 1. COIL MINIMUM 100' FIBER OPTIC CABLE SERVICE LOOP IN VAULT.
- 2. CONTRACTOR TO LOCATE SPLICE BOXES AS CLOSE TO PROPERTY LINES AND/OR FENCE LINES AS PRACTICAL.

3. GPS COORDINATES TO BE TAKEN FOR ALL LOCATIONS PER FIELD INSTALLATION.
 4. REFER TO E-GA-30 AND E-FL-30 FOR SPLICE LOCATIONS.

- 4. REFER TO E-GA-30 AND E-FL-30 FOR SPLICE LOCATIONS.

 5. TRACER WIRES TO BE BONDED TOGETHER AND ELECTRICALLY INSULATED.
- 6. ALL FIBER MUST BE LABELED WITHIN 12" OF TERMINATIONS WITH CABLE/WIRE DESTINATION.

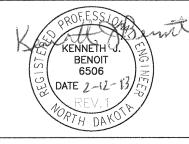
7. IF HAND HOLE IS BURIED USE LOCATOR BALL.

TEM	QUANTITY	UNIT	DESCRIPTION	MANUFACTURER	CATALOG			
63	2	FT	2" HDPE CONDUIT 90 DEGREE ELBOW, 24" RADIUS					
110	and the second s	EA	ENCLOSURE, PRECAST POLYMER CONCRETE ENCLOSURE 24"x36" GASKETED, HEAVY DUTY w/ 2 BOLTS	QUAZITE	PG246HG00			
111	1	EA	COVER, PRECAST POLYMER CONCRETE ENCLOSURE 24"x36" GASKETED, HEAVY DUTY w/ 2 BOLTS	QUAZITE	PG246HG00			
114		FT	LOCATOR BALL (AS NEEDED, SEE NOTES)	3M	EMS1422-XR/II POWER			



BARR PROJECT No.

- 1						
	Α	BNK	RJG	CSF	8/16/11	85% DELIVERABLE
	В	BNK	CSF	CSF	9/20/11	90% DELIVERABLE
	0	BNK	CSF	JLM	10/4/11	ISSUED FOR CONSTRUCTION
	1	NJG	KSB	149B	12/3/12	CONSTRUCTION REVISIONS, NO CHANGES
			177	1)		
	NO.	BY	СНК.	APP.	DATE	REVISION DESCRIPTION



CLIENT	8/16/11	9/20/11		10/4/11				
BID								
CONSTRUCTION					******			BABB
PERMITTING								BARR
RELEASED	Α	В	С	0	1	2	3	Corporate Headquarters Minneapolis, Minnesota
TO/FOR	DATE RELEASED						Ph: 1-800-632-2277	
	4						***************************************	

	Project Office:
	BARR ENGINEERING CO.
	4700 WEST 77TH STREET
	MINNEAPOLIS, MN.
	55435-4803
rters:	Ph: 1-800-632-2277
ota 277	Fax: (952) 832—2601 www.barr.com

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te	08/16/11	
awn	BNK	minnesota po
ecked	CSF	part to the particular of the
signed	RJG	AN ALLETE COMPAN



	BIS	SON	3	WIND	PR	OJECT	
MORTON	28	OLIV	ER	COUNT	IES,	NORTH	DAKOTA

DAI/OTA	34/33-1006						
DAKUTA	CLIENT PROJECT No	•					
	DWG. No.	REV.					

COLLECTOR SYSTEM

BELOW GRADE FIBER OPTIC HAND HOLE

A WIND ENERGY INITIATIVE OF MINNESOTA POWER IN NORTH DAKOTA